

TO: ALL REGENCY COMMUNICATIONS PROFESSIONAL SALES AND SERVICE CENTERS
ALL REGENCY COMMUNICATIONS PROFESSIONAL SALES REPRESENTATIVES

MODELS AFFECTED: XLU152, XLU1515

SYMPTOM: INFERIOR TX HUM AND NOISE

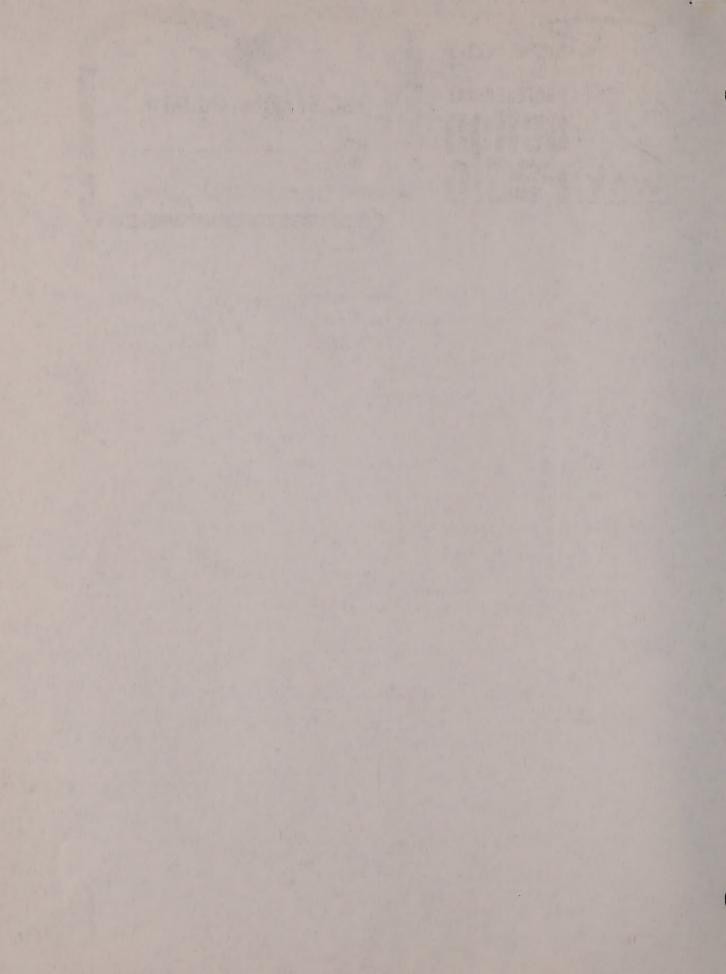
## SOLUTION:

Replace IC605 and IC606 (CA3130) with Regency Part Number 3130-3167-907 ( $\mu$ A741). At the same time, remove C606, C608, and R610 which are now unnecessary.

Radios manufactured after August 1982 will have this change.

Remove pages 13,14,15, and 16 from your XLU1515 Service Manual and pages 9,10,11, and 12 from your XLU152 Service Manual and replace them with the attached pages. (Parts List for the XLU152 were attached to Service Bulletin 81-202.)

TECHNICAL SERVICE DEPARTMENT REGENCY COMMUNICATIONS, INC.



## RESISTORS (All resistors are \%W 5% unless otherwise noted.)

R600	10 ohm	4704-0100-032	П 6
			E-6
R601	27 ohm, 10%, comp.	4700-0270-042	E-6
R602	150 ohm	4704-0151-032	D-6
R603	12K	4704-0123-032	D-5
R604	18 ohm	4704-0180-032	E-6
R605	39 ohm	4704-0390-032	D-6
R606	39 ohm	4704-0390-032	D-6
R607	27K	4704-0273-032	E-5
R608	470 ohm	4704-0471-032	D-5
R609	07 1 100	4700-0270-042	D-6
R610		4700-0270-042	D-0
	not used	A STATE OF THE STATE OF	P to State
R611	390 ohm	4704-0391-032	C-9
R612	1.2K	4704-0122-032	D-9
R613	2.7 ohm	4704-0279-032	C-9
R614	56K	4704-0563-032	C-7
R615			
	100K	4704-0104-032	C-7
R616	15K	4704-0153-032	B-7
R617	47K	4704-0473-032	C-7
R618	68K	4704-0683-032	C-7
R619	68K	4704-0683-032	C-7
R620	100K		
		4704-0104-032	C-6
R621	27K	4704-0273-032	B-7
R622	330 ohm	4704-0331-032	B-6
R623	22K	4704-0223-032	E-8
R624	22K	4704-0223-032	E-8
R625	27K	4704-0273-032	B-10
R626	4.7K	4704-0472-032	C-9
R627	8.2K	4704-0822-032	C-9
R628	18K	4704-0183-032	C-9
R629	22K	4704-0223-032	B-9
R630	22K	4704-0223-032	C-8
R631	2.2K		
		4704-0222-032	C-7
R632	100 ohm, 2W, WW	4707-0101-031	D-9
R633	4.7K	4704-0472-032	B-10
R634	10K	4704-0103-032	D-8
R635	5.6K	4704-0562-032	A-10
R636	100 ohm	4704-0101-032	B-10
R637	22K	4704-0223-032	E-8
R638	18K	4704-0183-032	C-9
R639	1K	4704-0102-032	E-5
R640	22K	4704-0223-032	E-8
CAPACITORS	CEC-MILET WOLL	1,01 0223 032	1 0
C600	1000µf, 16V	1513-3254-704	P 6
			E-6
C601	220µf, 16V	1513-3254-711	B-9
C602	.lµf 20%, 12V	1502-0104-005	B-9
C603	.01µf 5%, Mylar	1508-0103-510	C-7
C604	10µ f, 25V	1513-0100-003	B-7
C605	.0022µf 5%, Mylar	1508-0222-510	C-7
C606	not used	1300 0222-310	-
		1500 0452 534	4000
C607	.0047µf 5%, Mylar	1508-0472-510	C-7

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LOCATION	DESCRIPTION	PART NUMBER	ZONE	
C608 C609 C610 C611 C612 C613 C614 C615 C616 C617 C618 C619 C620 C621 C622 C623 C624 C625 C626 C627 C628 C629 C630 C631 C632 C633 C634	not used .0022µf 5%, Mylar .22µf, Mylar 1000µf, 16V 150pf 20%, Z5F 150pf 20%, Z5F 150pf 20%, Z5F 150pf 20%, Z5F 4.7pf 10%, NPO variable 2.5-20 22pf 5%, NPO 68pf 5%, NPO 100pf 5%, G.P01µf 25V, Y5R 150pf 10%, Y5P .1µf 20%, 12V .001µf 50V, YZ .001µf 50V, YZ .001µf 50V, YZ 150pf 20%, Z5F .1µf 20%, 12V 10µf, 25V 47µf, 16V .2µf, 12V 470pf 20%, Z5F .47µf, 12V 0.2µf, 12V 0.2µf, 12V	1508-0222-510 1508-3300-302 1513-3254-704 1523-0151-002 1523-0151-002 1523-0151-002 1523-0151-002 1500-0479-905 1517-0000-019 1538-0220-508 1538-0680-509 1538-0101-524 1538-0103-804 1538-0101-524 1538-0101-524 1538-0101-524 1538-0101-524 1538-0101-524 1538-0101-524 1538-0101-524 1538-0101-524 1538-0101-524 1538-0101-524 1538-0101-524 1538-0101-524 1538-0101-524 1538-0101-524 1502-0104-005 1503-0102-003 1513-0100-003 1513-0470-002 1502-0204-006 1523-0471-002 1502-0474-006 1523-0204-006	C-6 C-6 B-7 B-6 E-5 D-5 E-5 E-8 C-9 C-8 C-8 C-8 C-7 D-8 C-9 D-10 C-10 B-10 C-10 B-10	
DIODES				
CR600 CR601 CR602 CR603 CR604	10V Zener, 1N5240B Germ 102-339 Germ 102-339 Germ 102-339 Germ 102-339	4808-0000-051 4807-1233-900 4807-1233-900 4807-1233-900 4807-1233-900	B-6 B-9 C-8 D-10 D-10	
INDICATORS				
LD600	RED L.E.D.	4810-1282-905	B-7	
INDUCTORS				
L600	coil	1800-3152-009	E-5	
TRANSISTORS				
Q600 Q601 Q602 Q603 Q604	Darlington D40Cl N.P.N. White SPS1539 N.P.N. SPS952-2 N.P.N. Red SPS1473 N.P.N. SPS952-2	4814-0000-002 4801-0000-060 4801-0000-016 4801-0000-035 4801-0000-016	C-9 E-7 E-8 E-5 B-10	

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LOCATION	DESCRIPTION	PART NUMBER	ZONE
INTEGRATED CIRCUITS			
IC600 IC601 IC602 IC603 IC604 IC605 IC606	Syn. Chip, MC145156 Prescaler 7414 Microprocessor 74LS02 µA741 µA741	3130-6424-500 3130-6424-401 3130-3157-654 3130-6060-312 3130-3157-632 3130-3167-907 3130-3167-907	C-8 C-8 C-10 C-10 B-8 C-7 C-6
CRYSTALS			
Y600 Y601	12.8 MHz 3.579 MHz	2338-3300-502 2342-3284-400	D-9 C-10
THERMISTOR			
RT600	KB23J1	5300-0000-001	C-9

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## XLU1515B PARTS LIST

The XLU1515B Parts List is identical to the XLU1515A Parts List except for the following:

P.A. Board			
R301 R302	1K 10% comp not used		4700-0102-042
C302	15pf 5% NPO		1500-0150-605
C311 C313	not used 10pf 5% Mica		1522-0100-006
C314 C315	not used 33pf Mica Undwd	220 27 C. L	1522-5418-304

Schematic Zone Locations are the same as those shown for the XLU1515A parts.

LOCATION	DESCRIPTION	PART NUMBER
CAPACITORS		
C500 C501 C502 C503 C504 C505 C506 C507 C508 C509 C510 C511 C512 C513 C514 C515 C516 C517 C518 C519 C520 C521 C522 C523 C524 C525 C526 C527 C528 C529 C530 C531 C532 C534 C535 C536 C537 C538 C539 C534 C535 C536 C537 C538 C539 C540 C541 C542 C541 C542 C543 DIODES CR500 CR501 INDUCTORS	0.0luf 5% 100V Mylar 150pf 20% 50V Z5F 0.47uf +80-20, 12V (Option of 24pf 10% NPO 50V variable, 4-11pf, white 0.0luf 30% Y5R 25V 33pf 10% NPO 50V 150pf 10% Y5P 50V 0.0luf 5% 100V Mylar 0.0047uf 5% 100V Mylar 0.06&uf 10% 100V Mylar 0.06&uf 10% 100V Mylar 0.06&uf 10% 100V Mylar 0.06&uf 10% 100V Mylar 150pf 10% Y5P 50V 0.2uf +80-20 12V BC-12 10uf 16V Electrolytic 0.2uf +80-20 12V BC-12 20uf 16V Electrolytic 0.2uf 20% 50V Z5F 47uf 16V Electrolytic 0.luf 20% 12V BC-12 100uf 16V Electrolytic 0.luf 20% Y5T 50V 0.00luf 20% Y5T 50V	1508-0103-510 1523-0151-002 only)1502-0474-006 1500-0240-650 1517-3295-302 1538-0103-804 1500-0330-650 1538-0151-601 1508-0102-510 1508-0472-510 1508-0472-510 1508-0472-510 1508-0472-510 1508-0472-510 1508-0472-510 1508-0472-510 1508-0683-610 1508-0472-510 1508-0683-610 1508-0472-510 1508-0683-610 1538-0151-601 1502-0204-006 1513-0100-002 1502-0204-006 1513-0101-002 1502-0104-005 1513-0101-002 1502-0104-005 1513-0101-002 1502-0104-005 1513-0101-002 1502-0104-005 1513-0101-002 1502-0104-005 1513-0101-002 1502-0104-005 1513-0101-002 1502-0104-005 1513-0101-002 1502-0104-005 1513-0101-002 1502-0104-005 1513-0101-002
L500	Coil, white	1800-3152-009
L501	Helical coil 6.5T	1800-5433-702

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DESCRIPTION	PART NUMBER
Helical coil 6.5T Choke molded, 1½T, orange Choke Molded, 4½T, yellow	1800-5433-702 1803-5125-907 1803-5125-902
Power, MRF 517 MPS A05 Red Top SPS1473 SPS-952-2	4804-3169-609 4801-0000-005 4801-0000-035 4801-0000-016
LM 2902N LM358N 8V Reg 78L08AC 5V Reg 78M05C	3130-3157-637 3130-3167-909 3130-0000-021 3130-0000-019
12V Relay Connector, 14 Pin	4500-3251-900 2105-3299-202
HESIZER SECTION sistors are 5% %W carbon film u	nnless otherwise noted)
10 ohms 27 ohms comp 10% 150 ohms 12K 18 ohms 39 ohms 39 ohms 27K 470 ohms 27 ohms comp 10%	4704-0100-032 4700-0270-042 4704-0151-032 4704-0123-032 4704-0180-032 4704-0390-032 4704-0390-032 4704-0273-032 4704-0471-032 4700-0270-042
not used 390 ohms 1.2K 2.7 ohms 56K 100K 15K 47K 100K 150K 27K 330 ohms 22K 22K	4704-0391-032 4704-0122-032 4704-0279-032 4704-0563-032 4704-0104-032 4704-0153-032 4704-0104-032 4704-0104-032 4704-0154-032 4704-0273-032 4704-0331-032 4704-0223-032 4704-0223-032
	Helical coil 6.5T Choke molded, 1½T, orange Choke Molded, 4½T, yellow  Power, MRF 517 MPS A05 Red Top SPS1473 SPS-952-2  LM 2902N LM358N 8V Reg 78L08AC 5V Reg 78M05C  12V Relay Connector, 14 Pin HESIZER SECTION  sistors are 5% ½W carbon film was 10 ohms 27 ohms comp 10% 150 ohms 12K 18 ohms 39 ohms 39 ohms 27K 470 ohms comp 10% not used 390 ohms 1.2K 2.7 ohms comp 10% not used 390 ohms 1.2K 2.7 ohms 56K 100K 100K 15K 47K 100K 100K 100K 15K 47K 100K 100K 17K 330 ohms 22K

LOCATION	DESCRIPTION	PART NUMBER
R626 R627 R628 R629 R630 R631 R632 R633 R634 R635 R636 R637	4.7K 8.2K 18K 2.2K 2.2K 2.2K 2.2K 100 ohms 2W Wirewound 4.7K 10K 5.6K 100 ohms 22K 18K 1K	4704-0472-032 4704-0822-032 4704-0183-032 4704-0222-032 4704-0223-032 4704-0222-032 4707-0101-031 4704-0472-032 4704-0103-032 4704-0101-032 4704-0101-032 4704-0183-032 4704-0102-032
CAPACITORS		
C600 C601 C602 C603 C604 C605 C606 C607 C608 C609 C610 C611 C612 C613 C614 C615 C616 C617 C618 C619 C620 C621 C622 C623 C624	1000uf 16V Electrolytic 220uf 16V Electrolytic 0.luf 20% 12V BC-12 0.0luf 5% 100V Mylar 10uf 25V Electrolytic 0.0022uf 5% 100V Mylar not used 0.0047uf 5% 100V Mylar not used 0.0022uf 5% 100V Mylar 0.22uf Mylar 1000uf 16V Electrolytic 150pf 20% 50V Z5F 150pf 20% 50V Z5F 150pf 20% 50V Z5F 150pf 20% 50V Z5F 4.7pf 10% 500V NPO variable, 2.5-20 22pf 5% 50V NPO 68pf 5% 50V NPO 68pf 5% 50V GP 0.0luf 30% 25V Y5R 150pf 10% Y5P 50V 0.luf 20% 12V BC-12 0.00luf +80-20 50V YZ	1513-3254-704 1513-3254-711 1502-0104-005 1508-0103-510 1513-0100-003 1508-0222-510 1508-0222-510 1508-3300-302 1513-3254-704 1523-0151-002 1523-0151-002 1523-0151-002 1523-0151-002 1523-0151-002 1523-0151-002 1523-0151-002 1538-0220-508 1538-0220-508 1538-0101-524 1538-0101-524 1538-0101-601 1502-0104-005 1503-0102-003
C625 C626 C627 C628 C629 C630 C631	0.00luf +80-20 50V YZ 150pf 20% 50V Z5F 0.luf 20% 12V BC-12 10uf 25V Electrolytic 47uf 10V Electrolytic 0.2uf +80-20 12V 470pf 20% 50V Z5F 470pf 20% 50V Z5F	1503-0102-003 1523-0151-002 1502-0104-005 1513-0100-003 1513-0470-001 1502-0204-006 1523-0471-002 1523-0471-002
C633 C634	0.47uf +80-20 BC-12 0.2uf +80-20 12V	1502-0474-006 1502-0204-006
THERMISTOR		2232 3234 330
RT600	Thermistor KB23J1	5300-0000-001
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LOCATION	DESCRIPTION	PART NUMBER
DIODES	State of the same	
CR600 CR601 CR602	10V Zener IN5240B Germanium Germanium not used	4808-0000-051 4807-1233-900 4807-1233-900
CR603 CR604 - 620	Germanium	4807-1233-900
LD600	Red L.E.D. (0.0.L.)	4810-1282-905
INDUCTORS		
L600	coil	1800-3152-009
TRANSISTORS		
Q600 Q601 Q602 Q603 Q604	Darlington D40C1 White Top - SPS1539 SPS-952-2 Red Top SPS1473 SPS-952-2	4814-0000-002 4801-0000-060 4801-0000-016 4801-0000-035 4801-0000-016
INTEGRATED CIRCUITS		
IC600 IC601 IC602 IC603 IC604 IC605 IC606	Synthesizer MC145156 Prescaler 7414 Microprocessor 74LS02 µA741 µA741	3130-6424-500 3130-6424-401 3130-3157-654 3130-6060-312 3130-3157-632 3130-3167-907 3130-3167-907
CRYSTALS		
Y600 Y601	12.8 MHz 3.579 MHz	2338-3300-502 2342-3284-400